



INNOVATING FOR CONTINENCE: THE ENGINEERING CHALLENGE, 2015

Biographies of Speakers

Jeffrey Albaugh, PhD, APRN, CUCNS

Advanced Practice Urology Clinical Nurse Specialist & Researcher Professor
Jeffrey Albaugh is a board certified Advanced Practice Urology Clinical Nurse Specialist who is the Director of Sexual Health at NorthShore University Health System. He specializes in treating men and women with sexual dysfunction, as well as helping men improve quality of life after prostate cancer treatment in terms of erectile function and continence. He is an internationally recognized speaker and expert in the area of sexual health who has spoken all over the United States and in Italy, Scotland, England, Spain, New Zealand and Australia. He completed his PhD in research at the University of Illinois in Chicago. Dr. Albaugh has been involved in a variety of research initiatives and received NIH funding for his research examining the impact of treatment for erectile dysfunction on quality of life. He received his Masters of Science from North Park University and his Bachelor of Science from DePaul University. He is an award winning author who has published over 25 articles, booklets and/or chapters and a book "Reclaiming Intimacy after Prostate Cancer Treatment." Dr. Albaugh has been quoted in many publications including the *New York Times*, *The Chicago Tribune Red Eye* and on CBS Chicago Channel 2 News and WGN News. Dr. Albaugh was awarded two separate Nursing Excellence Awards, as well as the Patients First Award for exceptional patient care at Northwestern Memorial.

Tamara Bavendam, MD, MS

Tamara Bavendam, MD, MS, is a Senior Scientific Officer at the US National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) and Program Director for Women's Urologic Health. Dr. Bavendam received her MD from the University of Iowa where she also completed her urology residency. She earned a Master of Science in Pharmaceutical Medicine from Hibernia College, Dublin, Ireland. Over her 25-year career, she has participated in all phases of clinical research for devices and drugs to treat urinary incontinence. In her current role at the NIDDK she is leading the effort to establish research for the prevention of lower urinary tract symptoms, including urinary incontinence. In addition, Dr. Bavendam is working to raise awareness within the federal government regarding the importance of evaluating and treating lower urinary tract conditions.

Linda Brubaker, MD, MS, FACS, FACOG

Dr. Brubaker serves as the dean of Loyola University Chicago Stritch School of Medicine, and also is a professor in the Department of Obstetrics and Gynecology, with a joint appointment in the Department of Urology. She directs the Division of Pelvic Medicine and Reconstructive Surgery. Dr. Brubaker has been a member of the faculty since 2000, when she was recruited to begin the Female Pelvic Medicine and Reconstructive Pelvic Surgery Program. Prior to serving as interim dean, she was the senior associate dean for clinical and translational research. Dr. Brubaker earned a bachelor's, with honors, from the University of Illinois at Chicago and a master's in clinical research design and statistical analysis from the University of Michigan. She received her medical degree from Rush University, where she also completed her residency and fellowship training. Dr. Brubaker was on the cover of *Chicago* magazine's January 2011 issue featuring Top Doctors for Women. She also is a prolific researcher, with major National Institutes of Health grants and a long list of publications. She has served as president of the American Urogynecologic Society and the Society of Gynecologic Surgeons. She is an associate editor of the *Journal of Female Pelvic Medicine and Reconstructive Surgery* and a member of the editorial boards of *Obstetrics and Gynecology* and *Neurourology and Urodynamics*.

Alan Cottenden, PhD

Professor Cottenden is the Technical Director of the Continence and Skin Technology Group, University College London, England; a Simon Foundation Advisory Board member; Chair of the Board of Trustees of the British Bladder and Bowel Foundation; Chair of the Organizing Committee for the biennial "Incontinence: The Engineering Challenge" conferences run by the UK Institution of Mechanical Engineers; and Chair of Committee 20 (Management Using Continence Products) of the WHO International Consultation on Incontinence. Involved in continence technology R&D for over 30 years, Professor Cottenden has engaged in diverse projects from fundamental and applied physical and life sciences research through translational research work, commercial consultancy, product design and development, and international standards work. He has published more than 250 scientific and clinical publications, refereed conference contributions and patents, given over 100 invited lectures, and facilitated and chaired numerous academic, clinical, commercial and charity events in the UK and overseas.

Pam Dalton, PhD, MPH

Dr. Dalton is a Professor at the Monell Chemical Senses Center in Philadelphia, a nonprofit, multidisciplinary, basic research institute devoted to the study of smell, taste and chemical irritation. Dr. Dalton received her PhD from New York University in Experimental Psychology and her Master in Public Health from Drexel University. Her research program explores the interaction between cognitive and sensory factors in both the positive and negative responses to odor. Her work has been supported by grants from the US National Institutes of Health (NIH), with additional funding from the US Department of Defense, private foundations and industry collaborations. The research she conducts utilizes both laboratory chamber studies and field studies to

investigate a variety of topics in chemosensation, including the perception and control of malodor, the role of social and non-social odors in both eliciting and reducing stress, the effects of occupational and residential pollutant exposures on chemosensory function and chemical communication of emotional states. She has published widely on the human response to odors in both health and disease states. Dr. Dalton was the team leader for the Olfaction domain of the NIH Toolbox and is currently a member of the Sensory Functioning Team (Taste and Olfaction) in the National Children's Study Scientific Committee for Health Measurement. She has served on the National Academy of Sciences review panel for research at the US Army Research Laboratories. She is a consultant to many groups in the chemical, food, household products, and fragrance industries, as well as government and community organizations involved in odor issues.

Margot Damaser, PhD

Dr. Damaser received her PhD in Bioengineering from the joint program of the University of California San Francisco and Berkeley. She is Professor of Molecular Medicine in the Cleveland Clinic Lerner College of Medicine at Case Western Reserve University and has joint appointments in the Biomedical Engineering Department and the Glickman Urological and Kidney Institute at Cleveland Clinic. She also is a Senior Research Career Scientist in the Advanced Platform Technology Center of Excellence of the Louis Stokes Cleveland VA Medical Center, Cleveland, OH. She has conducted research on urodynamics and the causes of and treatments for urinary incontinence for over 20 years. She has developed novel devices for improved diagnosis and treatment of incontinence and has developed and used animal models to test novel therapies with a focus on neuroregeneration. Dr. Damaser has written more than 100 scientific peer-reviewed publications, and has research grants from NIH, VA, private foundations, and several companies. She is widely regarded as an expert, serving on NIH and VA study sections and as an editorial board member of the journal *Neurourology and Urodynamics*.

Lucy E. Dunne, PhD

Lucy E. Dunne is an Associate Professor at the University of Minnesota, where she directs the Apparel Design program and the Wearable Technology Lab. She is a co-author (with Susan Watkins) of the forthcoming book, *Functional Apparel Design: From Sportswear to Space Suits* (Fairchild Books, 2015). Her academic background includes degrees in Apparel Design (Cornell University, BS and MA), Electronic Engineering (Tompkins-Cortland Community College, AAS), and Computer Science (University College Dublin, PhD). Her research is focused on wearability and textile-based wearable technology, and explores new functionality in apparel, human-device interface, production and manufacture, and human factors of wearable products. Dr. Dunne has received the US National Science Foundation's CAREER award and the NASA (National Aeronautics and Space Administration) Silver Achievement Medal for her work with functional clothing and wearable technology.

Mandy Fader, RN, PhD

Professor Fader received her nursing qualification from St. George's Hospital, London in 1980. She began her career in continence with a research post at University College London (UCL) in 1982, and joined the clinical continence team in 1984. In 1995 she returned to research at UCL and worked on a programme of continence product evaluations, completing her PhD in 2001. In 2004 Professor Fader joined the University of Southampton to form the Continence Technology and Skin Health Group (a collaboration with UCL) and leads a team of researchers focusing on research into continence products and devices, and the effects of incontinence on skin health. Dr. Fader is an ex-Trustee of the International Continence Society (ICS), a member of the ICS Nurses' Committee, a committee member for the International Consultation on Incontinence (ICI), an advisory board member for the ICI questionnaire panel, an editor for the Cochrane Incontinence Group, and consulting editor for the *Journal of Wound Ostomy & Continence Nursing*.

Jennifer Harris, BFA, MFA

Ms. Harris is an innovative product designer with a unique ability to identify consumer needs and translate them into viable business opportunities. She is experienced at bringing successful products to market for both start-ups and Fortune 500 level companies, beginning with up front incubation through to marketing and sales. After seeing firsthand the unmet needs of her mother and grandparents who had to use mobility aids, Ms. Harris co-founded Motivo, Inc. Through this entrepreneurial venture, she is focused on redefining the mobility aid category by creating independence enabling products designed for people, not patients. Ms. Harris is also an accomplished artist and craftsperson whose work reflects an interest in design, functional object making, and the social and cultural significance of objects of use. Her work is part of the permanent collection at the Samuel Dorsky Museum of Art in New York and has been exhibited nationally at galleries and museums including the Cleveland Institute of Art in Ohio; the Contemporary Crafts Gallery in Portland, Oregon; and the John Michael Kohler Arts Center in Sheboygan, Wisconsin. She holds a Bachelor of Fine Arts from the University of Michigan.

Mark Harvie, MS

Mr. Harvie is President of Omni Measurement Systems, Inc. Omni is a research and development company specializing in mechanical and electro-mechanical design, bio-medical sensors design, and bio-medical research. The company produces an Advanced Mission Extender Device (AMXD), a light weight, fully-automatic urine collection device for both male and females that is US Air Force Safe to Fly tested and US FDA (Food and Drug Administration) approved. Mr. Harvie's experience encompasses mechanical, manufacturing, and design engineering. Prior to his current position he was the President of International Scale Systems, Inc.

Susan Hayward, BS, MS, PCC

Ms. Hayward is the Director of the Continence Coaching Program and also the Project Director on various programs at the Simon Foundation for Continence. Ms. Hayward is the first certified Life Coach to be trained as a Continence Coach. She holds a Professional Certified Coach Credential from the International Coach Federation and serves as President of the Board of Directors of One to One Women Coaching Women, a non-profit that provides pro bono coaching for women. Ms. Hayward has a Master's Degree and has taught science in grades 4-12. She is fluent in Spanish, and spent 11 years in Colombia, South America where among other projects she created a health program for a local school. Upon returning to the States she managed two organic vegetable farms and created the nonprofit, Roots and Wings, which provided non-traditional job training opportunities for at risk women aged 14-21. She spent seven years as Director of Shelters for Homeless Families in New York City for the non-profit, Women in Need. In addition to her work at the Foundation, Ms. Hayward has a private coaching practice with an emphasis on eldercare coaching.

Jeremy Knopow, BS, MFA

Mr. Knopow is an innovation and business professional who has focused his career on combining design and purpose. Along with his nearly 20 years of Fortune 500 consumer product development and management experience, areas of interest have also included firefighter safety gear, school violence, 911 rescue workers, sanitation and malaria in Africa, and most recently living aids. He has been a frequent guest lecturer on user-centered design and social entrepreneurship at numerous universities around the world, and is currently an Adjunct Professor of Industrial Design at the Milwaukee Institute of Art and Design. He holds a BS in Mechanical Engineering and a Masters of Fine Art in Industrial Design, both from the University of Illinois at Urbana-Champaign and is named on over 130 patents.

Margaret Macaulay MSc, RN, DN

Ms. Macaulay is currently a research nurse at the Continence & Skin Technology Group, University College London. Here she works with Professor Cottenden and Professor Fader on a range of research studies evaluating and developing continence technologies. Her background is as a community-based continence nurse specialist in the London area. Her current area of interest is the on-going development of the Continence Product Advisor website and the development of improved products for men who have had prostate cancer. Ms. Macaulay is currently working as project coordinator on a major National Health Service funded research programme to investigate re-use of catheters for intermittent self-catheterisation.

Linda McLean, PhD

Professor McLean obtained her PhD from the University of New Brunswick in biomedical engineering and is currently Professor at the School of Rehabilitation Sciences, University of Ottawa, Canada. Prior to this appointment she was Professor and Chair of the graduate Program in Rehabilitation Science at Queens University. Her

research interests include rehabilitation strategies for urinary incontinence and clinical and kinesiological electromyography.

Scott Meek, PhD

Dr. Meek is the Head of Research and Development at Pixie Scientific. His research focuses on using colorimetric sensors in conjunction with mobile device cameras to create low-cost health monitoring tools. He received his PhD in Organic Chemistry from MIT, where he designed a new class of near-infrared fluorescent dyes for in vivo imaging of beta-amyloid plaques. He served as a Postdoctoral Fellow at Sandia National Laboratories, working on integrating highly ordered, porous, crystalline structures called Metal-Organic Frameworks (MOFs) into new gas separation, photovoltaic, and radiation sensor technologies. Dr. Meek is also a Visiting Scholar at NYU, where he works closely with faculty in the Colloidal Synthesis Facility to develop novel passive colorimetric urinalysis reagents. He coordinates academic and industrial partnerships to bring these tools out of the laboratory and into the hands of clinicians and caregivers.

Diane Newman, DNP, FAAN

Dr. Newman is a certified nurse practitioner who serves as Co-Director of the Penn Center for Continence and Pelvic Health, Division of Urology, University of Pennsylvania Medical Center in Philadelphia, as well as Adjunct Professor of Urology in Surgery, Perelman School of Medicine at the University of Pennsylvania. Dr. Newman received her Bachelor of Science degree in nursing from LaSalle University in Philadelphia, a Master of Science degree in nursing from the University of Pennsylvania, a postgraduate study at the University of Pennsylvania's School of Nursing and a Doctorate of Nursing at Thomas Jefferson University in Philadelphia. Dr. Newman's clinical practice involves the assessment and treatment of patients with urinary incontinence and overactive bladder. She is an internationally known speaker and is currently co- or sub-principal investigator for numerous clinical trials. A prolific writer, Dr. Newman has written and presented more than 100 scientific papers, chapters, and articles on the assessment, treatment, and management of incontinence with an emphasis on the nurse's role. She is the author of the book *The Urinary Incontinence Sourcebook* and is the co-author of *Managing and Treating Urinary Incontinence* and *Overcoming Overactive Bladder*.

Kaoru Nishimura, RN

Ms. Nishimura is the founder and chairperson of the Japan Continence Action Society and a director of the Japanese Society of Geriatric Urology. She is also a Japanese Society for Dementia Care Board member. Ms. Nishimura studied in England and returned to Japan as the country's first continence advisor in 1988. She is the author of over twenty books on continence care and consults for several continence clinics. Ms. Nishimura is known throughout Japan for her dedication to continence care. She also works with industrial designers to develop devices for individual patients with unique incontinence challenges, and several of these devices have been commercialized. Her outstanding work has been recognized with the 2006 AVON Award and the "Healthy

Society Award” in 2007. Ms. Nishimura is a member of the Continence Promotion Committee of the International Continence Society.

Christine Norton, PhD, MA, RN

Professor Norton is the Florence Nightingale Professor of Clinical Nursing research at King's College London and Imperial College Healthcare London. She has worked with people with incontinence for 35 years, specialising first in urinary incontinence and for the past 20 years in faecal incontinence. In the past she was a co-chair of the International Continence Society Continence Promotion Committee and of the International Consultation on Incontinence Faecal Incontinence Committee. She chaired the UK national guidelines on faecal incontinence and is an editor for the Cochrane Collaboration Incontinence Group. She has authored seven books and over 100 articles on incontinence.

Christopher Payne, MD

Christopher Payne, MD Dr. Payne grew up in West Virginia and attended undergraduate school at the University of Virginia where he received a BA degree in Chemistry with a minor in English. He attended Vanderbilt University for medical school after which he completed a urology residency at The Hospital of the University of Pennsylvania in Philadelphia, Pennsylvania. After completing a fellowship in Female Urology, Urodynamics, and Pelvic Reconstructive Surgery at UCLA in 1992-1993, he was recruited to Stanford University in August 1993 to initiate a new program in Female Urology and NeuroUrology. He advanced to a tenured position as Professor of Urology and served continuously until his retirement from Stanford in 2014 as an Emeritus Professor. Dr. Payne is nationally recognized as a leader on issues in female urology having served on NIH advisory/oversight panels on urinary incontinence and interstitial cystitis. His expertise in clinical research has been recognized through two NIH principal investigator grants focusing on treatment of interstitial cystitis. He has published numerous articles and book chapters on urinary incontinence, pelvic reconstructive surgery, and interstitial cystitis. He served three times as the committee chair for “Research Methodology” for the International Consultation on Incontinence and is a Trustee of the International Continence Society. He has been recognized by Castle-Connolly as one of America’s Top Doctors for ten consecutive years. Dr. Payne’s most recent venture is a joint practice with Dr. Jeannette Potts: Vista Urology and Pelvic Pain Partners. The goal is to provide personalized urologic care while continuing to advance our knowledge base through clinical research. Dr. Payne has a special interest in obstetric fistulas in the developing world. He is on the Board of the Worldwide Fistula Foundation and the Danja Fistula Center in Africa. Dr. Payne has made several trips to Africa for treatment and research pertaining to this problem.

Mark K. Plante, MD, FRCS(C), FACS

Mark K. Plante, MD, FRCS(C), FACS is the Chief of Urology at the University of Vermont Medical Center. He is a Tenured Associate Professor of Surgery and is the Urology Residency Program Director. A Flight Surgeon from 1993 to 1996 for Skyservice, he completed his medical degree and surgical training at McGill University in Montreal,

Canada and received several awards during his residencies in General Surgery and Urologic Surgery. Dr. Plante has co-authored over 60 abstract presentations, over 35 peer review publications and four review publications and chapters. Dr. Plante has served as both Treasurer and President of the New England Section of the AUA and was a graduate of the inaugural leadership class of the AUA. Dr. Plante has been an invited speaker / presenter / visiting surgeon at conferences and universities throughout the United States, Canada, Eastern and Western Europe, Asia and Australia. He has been primary to the successful reestablishment of Urologic Surgical Residency training at the University of Vermont as well as the broad integration efforts for urologic patient care in several counties in both Vermont and Upstate New York.

Jeannette M. Potts, MD

Dr. Potts is a physician specializing in urology and men's health. She is an expert in urological pelvic pain syndromes and has contributed to this field through research, publications, and numerous presentations at international medical societies. Before moving to California, she was the Director of the Center for Pelvic Pain and Alternative Medical Services at Case Western Reserve University, and had been a member of the prestigious Glickman Urological Institute at the Cleveland Clinic for 15 years. She served as Director of Urological Fellowship training for the Confederación Americana de Urología for eight years and served on the board of directors for IVUmed (International Volunteers in Urology). She is the editor of three urological textbooks and author of *Tango: Lessons for Life*, which provides her perspectives on life and healing "through the eyes of a dancing doctor." She has given over 100 lectures in 18 countries as a visiting professor or guest speaker at international medical and surgical societies. She and her husband, Dr. Christopher Payne, are co-founders of Vista Urology & Pelvic Pain Partners in San Jose, California. In this new practice, they continue to conduct research while providing personalized comprehensive care to their patients.

Rick Rader, MD

Dr. Rader is the Director of the Morton J. Kent Habitation Center at Orange Grove Center (Chattanooga, TN) where he is responsible for identifying innovative programs addressing the future medical problems of people aging with intellectual and developmental disabilities. He is the Editor in Chief of *Exceptional Parent Magazine* and the Vice President of Public Policy and Advocacy at the American Academy of Developmental Medicine and Dentistry, as well as a board member of the American Association on Health and Disability. Dr. Rader has published over 200 articles in the field of disabilities and health. He is cross-trained in internal medicine and medical anthropology. Dr. Rader is the 2013 recipient of the Simon Foundation for Continenence's Defeating Stigma Award.

Neil M. Resnick, MD

Dr. Resnick has devoted his career to caring for older adults, studying the causes of their illnesses, and teaching others to do the same. He currently serves as Thomas Detre Professor, Chief of Geriatrics, and Associate Director of the Aging Institute at the University of Pittsburgh and UPMC. Prior to coming to Pittsburgh, he spent 15 years on

Harvard's faculty where he established the Division of Gerontology at the Brigham and Women's Hospital and created America's first Continence Center. Funded by NIH for 30 years, Dr. Resnick has helped to pioneer the field of geriatric incontinence. His research has enhanced our understanding of the physiology of the lower urinary tract, of the ways in which it changes with age, and of the pathophysiology of geriatric incontinence. At each step, his studies have challenged the prevailing paradigm and dispelled common myths. His research has led to novel therapeutic approaches and to the establishment of standards that are now required of every US nursing home. In addition, he has worked with the US Agency for Healthcare Research and Quality (AHRQ), RAND, and the World Health Organization to adapt these guidelines for other settings and countries. He has applied a similar approach to other common geriatric conditions including osteoporosis, falls, prostatism, and delirium. Most recently, he and his colleagues have begun to re-engineer the clinical approach to the older patient, both to improve it and to embed such improvement into routine care. Dr. Resnick's work has been honored by awards from the American Urological Association, Society for Urodynamics and Female Urology (SUFU), Simon Foundation for Continence, American Geriatrics Society, Society for General Internal Medicine, and National Institutes of Health. He is now an Innovation Advisor to CMS. He also has received several teaching awards, and he has been included in *America's Top Doctors* and *The Best Doctors in America* since their first edition.

Ligia Rivera, BS

Ms. Rivera holds the position of Technical Strategist for Adult Care Front End Innovation, at Kimberly-Clark in Neenah, Wisconsin. Her responsibilities include developing consumer fundamentals, trends and need gaps knowledge to inform product development and concept communication for short and long term opportunities. She closely interacts with R&E product development, basic science teams and the Depend® brand team. The focus of her work for the last seven years has been related to bladder leakage needs for women and men. She has a BS in Chemical Engineering from the University of Puerto Rico, her native country. She has worked for Kimberly-Clark for 21 years. Prior to Kimberly-Clark she worked in New Jersey for Exxon Research & Engineering and then for Colgate-Palmolive R&D for 10 years.

Professor Karl-Dietrich Sievert, MD, PhD, FACS, FRCS

Professor Sievert is Professor and Chair of Urology at the University of Lübeck in Germany. Professor Sievert received his medical degree from the Ruprecht-Karls-University Medical School in Heidelberg and the University Clinic of Mannheim in Germany where he wrote his doctoral dissertation "Selective Sacral Root Stimulation by using sinusoidal signal and specific organ frequency for the physiological bladder evacuation" under the direction of Professor Peter Alken. He completed fellowships at the University of California's Urology Department and the Urology and Nephrology Center in Mansoura, Egypt with Professors Emil Tanagho and Tom Lue and Professors Mohamed Ghoneim and Hassan Abol-Enein, respectively. Professor Sievert has been recognized for his surgical expertise by both the American and Royal College of Surgeons and was recently elected to the AUA Education Council. He is a certified

DaVinci Console Surgeon. Professor Sievert has participated in visiting professorships and held international training courses, published in the fields of oncology, neuro-urology, incontinence, and reconstructive surgery and is a board member of numerous urological and reconstructive surgery organizations. He has received funding and awards for his research and is a recurring meeting contributor for both his clinical and basic research work to the local and international community, such as the European, German and American Urology Associations, International Continence Society, and Global Congress on Lower Urinary Tract Dysfunction, including State-of-the-Art presentations in oncology, incontinence, tissue engineering and stem cell treatments. In both 2011 and 2013, he was elected as Chairman of the combined ESFFU-ERGURS meeting and the 2012 AuF, Germany's Urology Research meeting. Professor Sievert's clinical and basic research interests include oncology (investigation of advanced detection tools and reduced invasiveness and improved functional outcome with anatomical and clinical findings), neurouology (diagnosis and treatment of urological nerve disorders), incontinence (pathophysiology), reconstructive surgery (medical devices, tissue engineering and stem cell treatments), pharmacotherapy and the progressive and innovative treatment of spinal cord injured patients, such as early SNM implantation, for which he won a 2010 Klee Innovation Prize award. He has initiated novel clinical trials to investigate the outcome of incremental or combined antimuscarinics dosages to increase effectivity without side effects. In recent years he became one of the few urologic experts in the stem cell and tissue-engineering field who has focused on the real-time processes of bringing research initiatives from the laboratory to the clinic.

Robert M. Spitz, MD, FACOG

Dr. Spitz is a gynecologist who has been in active clinical practice for over 30 years. His research interests pertain to developing less invasive options for treating and managing the quality of life issues about which his patients most often complain. Dr. Spitz has been awarded four US patents for devices to control stress urinary incontinence and he has been principal investigator on over 50 pharmaceutical and device clinical trials involving urinary incontinence and other women's health quality of life issues. His consultative work has included product design in the medical device industry, clinical trial design in the pharmaceutical industry, and product evaluation for the venture capital/investment industry. Dr. Spitz is President of Contine Corporation, a startup company that has developed an over-the-counter personal care product for management of female stress urinary incontinence. He is a strong proponent of engaging healthcare professionals earlier in the development process of new treatment products and strategies and hopes to see industry make better use of their valuable experience.

Ian Sutherland, BSc, PhD, FIMechE, FIPEM

Professor Sutherland was educated at Rugby School and Bristol University. He graduated in Mechanical Engineering in 1967 and after a graduate apprenticeship in the machine tool industry, he returned to Bristol to complete his PhD in machine tool technology. He joined NASA as a National Academy of Sciences postdoctoral research

fellow at the George C. Marshall Space Flight Center, Huntsville, Alabama before returning to the UK to join the MRC's National Institute for Medical Research as a member of their scientific staff and head of Mechanical Engineering. In 1989 he moved to Brunel University's Institute for Bioengineering, where he became director in 1995. Professor Sutherland has always worked as an engineer and scientist in a multi-disciplinary, collaborative environment at the forefront of a number of disciplines - notably portable insulin infusers, the treatment of infertility, the study of pelvic blood flow, the management of incontinence and the development of space flight hardware for NASA. The majority of these collaborations have resulted in commercial hardware and all have contributed to improved quality of life for the beneficiaries. He recently set up the Advanced Bioprocessing Centre at Brunel where he and his team are developing new methods of purifying drugs and getting them to market quickly in close collaboration with the pharmaceutical industry. His research has led to him being invited to give the 2004 IMechE James Clayton Lecture, being awarded a visiting professorship at Sichan University in China and receiving with his team at Brunel Institute for Bioengineering the Corac award for Engineering Research with Enterprise Promise. Professor Sutherland is invited to give keynote lectures on his research worldwide and is currently on the IMechE Pharmaceutical Committee, an Executive Council Member of the Consortium for the Globalisation of Chinese Medicine (CGCM) and was on the international organising committees of CCC2010 and BPP2011.

Adrian Wagg, MD, BS, FRCP, FHEA

Dr. Wagg qualified from the London Hospital Medical College in 1988. He trained in General and Geriatric medicine in and around London, UK. He is currently Professor of Healthy Ageing, Division Director for Geriatric Medicine and Deputy Chair of the Department of Medicine at the University of Alberta in Edmonton, Canada and visiting Professor at the Sahlgrenska Academy of the University of Gothenburg, Sweden. He is General Secretary of the International Continence Society and President of the Canadian Continence Foundation. He has an academic and clinical interest in urinary incontinence and has published many peer reviewed publications, chapters and reviews on the subject, spoken widely and is internationally recognized. His interests are in incontinence in the elderly, the effects of medication and co-morbidity on continence status, the epidemiology and aetiology of incontinence in the elderly and quality of care for older people.

David Zehren, Founder and President, Zehren-Friedman Associates

Mr. Zehren started his career at IBM selling mainframe computers to major corporations. He then returned to academia at the University of Chicago Graduate School of Business (now Chicago Booth), where he served for ten years as Director of the Evening MBA Program. Returning to the corporate world, he worked as Vice President and Manager of Training at the First National Bank of Chicago. With this corporate training background, he launched Zehren-Friedman Associates, an eight person training/consulting firm specializing in skills training in the areas of sales, presentations, negotiations, and influence. The firm's focus continues to be on helping professionals communicate more effectively. In recent years, Mr. Zehren and his

colleagues have conducted seminars for corporate and non-profit organizations on every continent except Antarctica. One of his interests is working with managers and individual contributors who do not see themselves primarily as negotiators. That's fine with him since he thinks that collaboration and problem solving (and who doesn't want to be better at that!) are two of the most important elements of excellent negotiating.